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CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

COUNTRY Germany (Soviet Zone)

SUBJECT Funk-Werk Radeberg

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1. During the past few weeks the Funk-Werk Radeberg has been manufacturing a new kind of apparatus, a centimeter wave-ranging apparatus for short-range airplane navigation. So far only two pieces have been manufactured and turned over for testing. The apparatus has a range of 185 kilometers at 3,200 meters elevation. About 40 signals are possible simultaneously. The ground station consists of an ultra-shortwave (UKW) revolving radio beacon. So far only one ground station has been built, which is at present set up on the Faltenberg near Dresden. The sending frequency is 920 megacycles (MHz) and the answering frequency 1180 MHz. The development work took two and a half years and was conducted simultaneously by the Nieder-Siedlitz and Radeberg works.
2. Up to now nothing had been reported about the research work. It was first heard of now through workmen engaged in its montage on the Faltenberg. The construction plans were delivered by Volkspolizei officers against a receipt and had to be given back upon completion of the work.
3. In the production of television equipment it is to be noted that the formerly manufactured Leningrad T2 television apparatus has been taken out of production. This apparatus was formerly delivered for 3,500 marks. Now it is sold for 1,500 marks. The new sets have different picture sizes, of which the 27 by 36 cm tube is the most usual. The number of channels is most frequently 10. The inlet has a double triode with a rimlock socket and the new ECC 81 (also double triode). The amplitude selector is finished with the ECH 81 and a triode with end pentode, ECL 81, which also serves the vertical deflector. The picture tubes are delivered from the HF Works at Oberschöneweide.

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4. A portable radio telephone for ultra short wave has been in production on Soviet order since the middle of June 1953. About 32 pieces are produced monthly. The works at Niedersiedlitz are pre-delivers for this product. The apparatus weighs 5.2 kilograms.
5. Another order is for throat-type microphones, of which 670 were produced in June and 620 in July. The work is having difficulties because of the poor varnish and fiber with which the thin wire is insulated.

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